

EXECUTIVE SUMMARY

The AN/SPN-35C Aircraft Control Approach Central is an upgrade to the current AN/SPN-35B. The AN/SPN-35B is deployed on the Amphibious Assault (LH) type ships to provide course and glide slope talk-down guidance to Navy and Marine Corps aircraft. The ship's air controller, using the AN/SPN-35B radar set, provides verbal direction to the aircraft's pilot. The pilot uses this direction in addition to guidance provided by a Vertical/Short Take-off and Landing, Optical Landing System and the AN/SPN-41A Instrument Carrier Landing System for precision landing operations. The AN/SPN-35C upgrade requirements are to simplify maintenance and radar operations and improve reliability, maintainability, and system performance. These requirements will be met by replacing the antenna drive reducers and motors, antenna actuators, syncros, radar-set control, control-indicator selector, antenna control circuits, transmitter, receiver, and display consoles. Additional system performance improvements will be made by adding Moving Target Detection (MTD), Track While Scan (TWS) capabilities, and Built-In Test (BIT) capabilities. The MTD capability will improve the performance of the AN/SPN-35C when operating in rain at rates up to 16 millimeters per hour and at ranges to 10 nautical miles. The TWS will provide an additional capability for recovering AV-8Bs during the transition from forward flight to hover. The AN/SPN-35 program is in Phase III (Production, Deployment, and Operational Support) of the Weapon System Acquisition Process. Initial Operating Capability of the AN/SPN-35C is planned for Fiscal Year 2003.

The AN/SPN-35C will not impact current manning onboard LH type ships. Personnel currently assigned to ships that operate and maintain the AN/SPN-35B will operate and maintain the AN/SPN-35C. The AN/SPN-35C will be operated by Air Traffic Controllers (AC) with Naval Enlisted Classification (NEC) 6903 assigned to the Amphibious Air Traffic Control Center. The AN/SPN-35C will not require any changes to the operational concept.

The maintenance concept for the AN/SPN-35C is based on two levels of maintenance, organizational and depot. No intermediate level maintenance is required. The upgrade to the AN/SPN-35C configuration will not cause any change to the current maintenance concept. The Electronics Technician (ET) rating with NEC 9602 will maintain the AN/SPN-35C.

Initial and follow-on training will be required for AN/SPN-35C operators and maintainers. The In-Service Engineering Agent (ISEA), Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes, Maryland, will provide initial training, and Naval Air Technical Training Center (NATTC) Pensacola, Florida, will provide follow-on training. NATTC Pensacola will develop the curricula for the operator courses with technical assistance provided by ISEA, NAWCAD St. Inigoes. NAWCAD will develop the curricula for the maintainer course with assistance provided by NATTC Pensacola.

TABLE OF CONTENTS

		Page
Executive Sumn	nary	1
List of Acronym	S	iii
Preface		V
PART I - TEC	CHNICAL PROGRAM DATA	
A. Non	nenclature-Title-Program	I-1
B. Seco	urity Classification	I-1
C. Mar	npower, Personnel, and Training Principals	I-1
D. Syst	tem Description	I-1
E. Dev	elopmental Test and Operational Test	I-2
F. Airc	eraft and/or Equipment/System/Subsystem Replaced	I-2
G. Des	cription of New Development	I-2
H. Con	cepts	I-3
I. Onb	ooard (In-Service) Training	I-9
J. Log	istics Support	I-9
K. Sch	edules	I-10
L. Gov	rernment-Furnished Equipment and Contractor-Furnished Equipment	
Trai	ning Requirements	I-10
M. Rela	ated NTSPs and Other Applicable Documents	I-11
PART II - B	ILLET AND PERSONNEL REQUIREMENTS	II-1
PART III - T	RAINING REQUIREMENTS	III-1
PART IV - T	RAINING LOGISTICS SUPPORT REQUIREMENTS	IV-1
PART V - M	PT MILESTONES	V-1
PART VI - D	ECISION ITEMS/ACTION REQUIRED	VI-1
PART VII - PO	OINTS OF CONTACT	VII-1

LIST OF ACRONYMS

AATCC Amphibious Air Traffic Control Center

AC Air Traffic Controller AOB Average Onboard

ATIR Annual Training Input Requirement

BIT Built-In Test

CM Corrective Maintenance CNO Chief of Naval Operations

ET Electronics Technician

GPETE General Purpose Electronic Test Equipment

ISEA In-Service Engineering Agent

LH Amphibious Assault LRU Line Replaceable Units

MPT Manpower, Personnel, and Training MRC Maintenance Requirement Card MTD Moving Target Detection

NAWCAD Naval Air Warfare Center Aircraft Division

NATTC Naval Air Technical Training Center

NEC Navy Enlisted Classification NTSP Navy Training System Plan

OPO OPNAV Principal Official

PM Preventive Maintenance

RFT Ready For Training

SPETE Special Purpose Electronic Test Equipment

TD Training Device

TFMMS Total Force Manpower Management System

N88-NTSP-A-50-9908/P **April 2001**

AN/SPN-35C AIRCRAFT CONTROL APPROACH CENTRAL LIST OF ACRONYMS

Technical Training Equipment Track While Scan TTE

TWS

PREFACE

This Proposed Navy Training System Plan (NTSP) for the AN/SPN-35C Aircraft Control Approach Central was prepared as part of the NTSP update process within guidelines set forth in Navy Training Requirements Documentation Manual Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97. This NTSP reflects changes that have occurred since the AN/SPN-35C Draft NTSP, N88-NTSP-A-50-9908/D, dated November 1999. The major changes to this NTSP version consist of the following:

- Adds C-222-2020, Amphibious Air Traffic Control Team Training course
- Lists St. Inigoes as a Non-Traditional Training Site for AN/SPN-35C maintenance training from May 2002 until May 2004
- Establishes the Ready For Training (RFT) date for AN/SPN-35C Operator training based on the AN/SPN-35C being installed on 50 percent of Amphibious Assault (LH) type ships

V

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

- 1. Nomenclature-Title-Acronym. AN/SPN-35C, Aircraft Control Approach Central
- **2. Program Element.** The program funding element has not been identified at this time.

B. SECURITY CLASSIFICATION

1.	System Characteristics	Unclassified
2.	Capabilities	Unclassified
3.	Functions	Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor
OPO Resource Sponsor
Developing Agency
Training Agency CINCLANTFLT CINCPACFLT CNET
Training Support Agency
Manpower and Personnel Mission Sponsor
Director of Naval Training

D. SYSTEM DESCRIPTION

1. Operational Uses. The AN/SPN-35C Aircraft Control Approach Central is a Precision Approach Radar (PAR) deployed on the LH type ships to provide course and glideslope talkdown guidance to Navy and Marine Corps aircraft. The radar set is used by the ship's air controller to provide verbal guidance to the aircraft pilot. The pilot uses this information in addition to information provided by a Vertical/Short Take-off and Landing, Optical Landing

System and the AN/SPN-41A Instrument Control Landing System for precision landing operations.

- **2. Foreign Military Sales.** No Foreign Military Sales are planned at this time.
- **E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** Developmental Test to began in Sept 00 and is scheduled to be completed in Jun 02. Operational Test is scheduled to begin Sept. 02 and be completed in Jul. 03. Naval Air Warfare Center Aircraft Division (NAWCAD) St. Inigoes, Maryland, will conduct full system testing of the AN/SPN-35C at St. Inigoes to verify compliance with specific performance parameter requirements.
- **F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** The AN/SPN-35C is an upgrade to the AN/SPN-35B. The upgrade will replace the existing drive reducers and motors, syncros, radar-set control, control-indicator selector, antenna control circuits, transmitter, receiver, and display consoles with all new solid state components designed to extend the life cycle of the current system.

G. DESCRIPTION OF NEW DEVELOPMENT

- 1. Functional Description. The AN/SPN-35C will have the same functional requirements of the AN/SPN-35B as well as the following new functional requirements. The new requirements are to simplify maintenance and radar operations and improve reliability, maintainability, and system performance. These requirements will be met by replacing the antenna drive reducers and motors, syncros, radar-set control, control-indicator selector, antenna actuators, antenna control circuits, transmitter, receiver, and display consoles. Additional system performance improvements will be made by adding Moving Target Detection (MTD), Track While Scan (TWS) capabilities, and Built-In Test (BIT) capabilities. The MTD capability will improve the performance of the AN/SPN-35C when operating in rain at rates up to 16 millimeters per hour and at ranges to 10 nautical miles. The TWS will provide an additional capability for recovering AV-8Bs during the transition from forward flight to hover.
- **2. Physical Description.** The following parameters have been established for the AN/SPN-35C physical characteristic requirements. These requirements have been established to minimize the impact of the upgrade.

NOMENCLATURE	WEIGHT	DIMENSIONS	LOCATION
Radar/Processor	Must weigh less	19.0"D x 18.7"W x 9.0"H	Radar and Indicator
Controller	than 75 pounds		Control Cabinet
Antenna Control	Must weigh less	19.0"D x 18.7"W x 9.0"H	Radar and Indicator
Drawer	than 100 pounds		Control Cabinet

NOMENCLATURE	WEIGHT	DIMENSIONS	LOCATION
Antenna Modification Kit	Must weigh less than 150 pounds	NA	05 level of ship
Receiver	Must weigh less than 50 pounds	18.0"D x 18.0"W x 8.0"H	Receiver-Transmitter Cabinet
Transmitter	Must weigh less than 160 pounds	19.0"Dx17.0"Wx21"H	Receiver-Transmitter Cabinet
Displays	TBD	20.1" diagonal	Helicopter Direction Control

- **3. New Development Introduction.** The AN/SPN-35C will be introduced as an upgrade to the AN/SPN-35B. Installation will take place during shipyard availability periods by the shipyard's alteration installation teams. The AN/SPN-35C will also be installed during production of future LH type ships.
- **4. Significant Interfaces.** The AN/SPN-35C will interface with the ship's power distribution system, pitch and roll gyro data for antenna stabilization, ship's Mute, and Battle Force Tactical Training (BFTT) system.
- **5.** New Features, Configurations, or Material. The AN/SPN-35C introduces the new Radar Processor Controller unit that will provide MTD, BIT, and TWS capabilities to the system. The upgrade will replace the existing antenna drive motors, syncros, radar-set control, control-indicator selector, antenna control circuits, transmitter, receiver, and display consoles with all new solid-state components designed to extend the life cycle of the current system.

H. CONCEPTS

- **1. Operational Concept.** The AN/SPN-35C will be operated, as required, by Air Traffic Controllers (AC) with Naval Enlisted Classification (NEC) 6903 assigned to the Amphibious Air Traffic Control Center (AATCC) during amphibious air operations (launches and recoveries) The AN/SPN-35C will not require any changes to the current operational concept.
- **2. Maintenance Concept.** The maintenance concept for the AN/SPN-35C is based on two levels of maintenance, organizational and depot. No intermediate level of maintenance is required. The upgrade to the AN/SPN-35C configuration will not cause any change to the current maintenance concept.

- **a. Organizational.** Electronics Technician (ET) personnel with NEC 9602 will maintain the AN/SPN-35C. Organizational level maintenance consists of both Preventive Maintenance (PM) and Corrective Maintenance (CM) actions.
- (1) **Preventive Maintenance.** Organizational level PM in support of the AN/SPN-35C will be accomplished per Maintenance Requirement Cards (MRCs) and maintenance manuals prepared for the system. PM consists of inspection, cleaning, lubricating, calibration, and operational checks.
- (2) Corrective Maintenance. Organizational level CM in support of the AN/SPN-35C consists of fault isolation to Line Replaceable Units (LRUs) using BIT, Maintenance Assist Modules (MAMs), and General Purpose Electronic Test Equipment (GPETE). CM also includes removal and replacement of faulty LRUs, and operational test to verify repairs.

b. Intermediate. NA

- **c. Depot.** Depot level maintenance consists of repairs to LRUs beyond the capability of organizational maintenance. The depot site for the AN/SPN-35C will be determined at a future date.
- **d. Interim Maintenance.** In-Service Engineering Agents (ISEA) provide technical assistance on an as required basis, from NAWCAD (Code 4.5.8.1.2), St. Inigoes. The Material Support Date for the AN/SPN-35C is scheduled for June 2004. The Navy Support Date is set for approximately six months after the Material Support Date is achieved.

e. Life-Cycle Maintenance Plan. NA

- **3. Manning Concept.** The AN/SPN-35C will not impact current manning onboard LH type ships. Personnel currently assigned to the ships that operate and maintain the AN/SPN-35B will operate and maintain the AN/SPN-35C. Refer to Part II of this NTSP for specific activity manpower requirements.
- **4. Training Concept.** Initial and follow-on training will be required for AN/SPN-35C operators and maintainers. ISEA, NAWCAD St. Inigoes, will provide initial and follow-on training until Naval Air Technical Training Center (NATTC) Pensacola, Florida, assumes follow-on training commencing May 2004. NATTC Pensacola will develop the curricula for the operator courses with technical assistance provided by ISEA, NAWCAD St. Inigoes. NAWCAD will develop the curricula for the maintainer course with assistance provided by NATTC Pensacola. The AN/SPN-35C will be incorporated into existing follow-on courses.
- **a. Initial Training.** ISEA, NAWCAD St. Inigoes, will provide initial instructor and maintainer training at NAWCAD, St. Inigoes, MD in conjunction with AN/SPN-35C installation. This requirement for will exist until NATTC Pensacola begins teaching the follow-on courses. The initial training for shipboard technicians and NATTC instructors is expected to begin during second quarter FY02.

Title AN/SPN-35C Initial Operator Training

Description This course provides AATCC AC personnel previously

trained on the AN/SPN-35B the knowledge and skills

necessary to operate the AN/SPN-35C.

Location °NATTC Pensacola

°LHD7

Other ships during installation

Length To Be Determined

RFT date Second quarter FY01

TTE/TD °TTE for ships is the installed AN/SPN-35C.

° Training Device (TD) for NATTC is the 15G30 AATCC Trainer (must be modified to replicate AN/SPN-35C

operator display/functionality)

Prerequisites AC 6903

Title AN/SPN-35C Initial Maintenance Training

Description This course provides AATCC ET personnel previously

trained on the AN/SPN-35B the knowledge and skills necessary to operate and maintain the AN/SPN-35C.

Location NAWCAD St. Inigoes, MD

Length To Be Determined

RFT date Second quarter FY01

TTE/TD TTE: AN/SPN-35C

Prerequisites ET 9602

b. Follow-on Training. NATTC Pensacola will update the operator curricula with AN/SPN-35C information. Curricula for the maintainer follow-on course will be developed by ISEA, NAWCAD St. Inigoes/contractor with format technical assistance provided by NATTC Pensacola. The Amphibious Air Traffic Control Center Operations training course for AC personnel will require minor changes and should not cause a change to course length. Maintenance training for the AN/SPN-35C will be included in segment course CIN TBD of pipeline course C-103-2116, and will replace current AN/SPN-35B information. The impact on the course length will be determined during curriculum development and changes will be included in updates of this NTSP. Planned removal of AN/SPN-35B information from the curriculum will be dependent upon the installation of the AN/SPN-35C at NATTC Pensacola. ISEA, NAWCAD

St. Inigoes will be a Non-Traditional Training Site (NTTS) for AN/SPN-35B maintenance and operator training until the upgrade has been completed at the fleet locations.

Title Amphibious Air Traffic Control Center Operations

CIN C-222-2019

Model Manager .. NATTC Pensacola

Description This course provides selected Air Traffic Control personnel with the basic knowledge and skills necessary to perform amphibious air traffic control. This includes:

- ° Organization and Directives
- ° Rules, Procedures, and Phraseology
- Watchstation duties and responsibilities in AATCC;
 Amphibious Air Traffic Control Doctrine
- ° Departure
- ° Assault
- Recovery procedures for both Helicopter and V/STOL during Case I, II, and III Operations
- ° Amphibious Air Traffic Control related equipment including:
 - AATCC Radars
 - DAIR system
 - Status boards
- ° Internal and external communications including:
 - Indoctrination on the use of the voice activated Advanced Shipboard Air Traffic Control System (ASATS)
 - Overview of training scenarios
 - Voice enrollment
- ° AATCC lab
 - Performing all watchstations
 - System operations functions under simulated operational conditions

Upon completion, the student will be able to perform as an Amphibious Air Traffic Controller in a shipboard environment with limited supervision.

Location NATTC Pensacola

Length 40 days

RFT date Fourth quarter FY04 (at the time AN/SPN-35C is installed

on 50% of LH type ships)

Skill identifier AC 6903

TTE/TD TD: 15G30 AATCC Trainer (must be modified to replace

AN/SPN-35C operator display/functionality)

Prerequisites C-222-2010, Air Traffic Controller

Title Amphibious Air Traffic Control Center Team Training

CIN C-222-2020

Model Manager .. NATTC Pensacola

Description This course provides AATCC/HDC Teams the refresher training necessary to gain and/or retain overall team performance and individual skill proficiency. This includes:

- ° Review of LHA/LPH/LHD NATOPS
- ° AOCC/HDC equipment and watchstations procedures
- ° Amphibious Warfare Exercises listed in the FXP 5
- Amphibious Warfare (AMW) and the "Joint Fleet Readiness and Training Manual"
- AMW-7-1 (Instrument Approach Procedures for Aircraft Recovery)
- ° AMW-14-1 (Control of Assault Helicopters by HDC/CIC)
- AMW-15-1 (Control of Assault Helicopter by HDC/CIC in an EMCON environment)
- Indoctrination and voice enrollment on the Voice Activated Advanced Shipboard Air Traffic Control Training System (ASATS), followed by a brief description of AATC DAIR functions
- Problem exercises scenarios, simulating conditions of at-sea air operations
- ° Additionally, equipment degradation may also be simulated such as:
 - DAIR/Radar malfunction
 - Loss of communications
 - Gunfire reporting may also be simulated

Location NATTC Pensacola

Length 12 days

RFT date Currently available

Skill identifier AC

TTE/TD TD: 15G30 AATCC Trainer (must be modified to replace

AN/SPN-35C operator display/functionality)

Prerequisites C-222-2010 Air Traffic Controller

Title AN/SPN-43C Amphibious Air Traffic Control Radar

Maintenance Technician Pipeline

CIN C-103-2116

Model Manager .. NATTC Pensacola

Description This course provides the theory and technical skills

necessary to operate and perform preventive and corrective maintenance on the AN/SPN-35C, AN/SPN-41, and

AN/SPN-43C Radar Systems. This includes:

° Use and operation of appropriate test equipment

- Troubleshooting to the discrete component level and repair
- Performing scheduled maintenance as outlined on Maintenance Requirement Cards (MRC)
- ° Antenna System
- ° Receiver-Transmitter
- ° Indicator
- ° Stabilized Pedestal
- ° Alignment and adjustment
- Personnel and equipment safety procedures and regulations

Upon completion, the student will be able to perform as an AN/SPN-43C Amphibious Air Traffic Control Radar Maintenance Technician with limited supervision in a shipboard environment.

Location NATTC Pensacola

Length 138 days

RFT date October 2004 with AN/SPN-35C incorporated into

curriculum

Skill identifier ET 9602

TTE/TD TTE: AN/SPN-35C, AN/SPN-43C, and AN/SPN-41

Prerequisites °A-100-0138, Electronics Technician Core A School

° A-100-0140, Electronics Technician Strand A School

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AC 6903	° C-222-2010, Air Traffic Controller
ET 9602	 A-100-0138, Electronics Technician Core A School A-100-0140, Electronics Technician Strand A School

d. Training Pipelines. No new training pipelines are required to support the AN/SPN-35C.

I. ONBOARD (IN-SERVICE) TRAINING

- 1. Proficiency or Other Training Organic to the New Development. NA
- **2. Personnel Qualification Standards.** The AC personnel assigned to AATCC utilize Operator Personnel Qualification Standards for Amphibious Air Traffic Control, NAVEDTRA 43315-6A, for shipboard training.
 - 3. Other Onboard or In-Service Training Packages. NA

J. LOGISTICS SUPPORT

- **1. Manufacturer and Contract Numbers.** Individual upgrade components of the AN/SPN-35C will be procured through different manufacturers. The AN/SPN-35C upgrade package and interconnecting hardware will be assembled by NAWCAD St. Inigoes for installation at the field activities.
- **2. Program Documentation.** The Allocated Baseline Description for the AN/SPN-35 System Upgrade, CDRL A003, Revision A, was prepared on 9 June 1999. Technical documentation for User Logistics Support Summary ULSS-ATC-019-REV A, 1 February 1999, is currently in the process of being updated. A new Maintenance Plan for the AN/SPN-35C is currently under development.
- **3. Technical Data Plan.** NAWCAD St. Inigoes is developing Technical Manuals and MRCs for the AN/SPN-35C. Preliminary (not validated) Technical Manuals and MRCs are scheduled for completion in July 2001.
- **4. Test Sets, Tools, and Test Equipment.** The AN/SPN-35C will be maintained with GPETE and common hand tools.

- **5. Repair Parts.** Repair parts will be procured through normal supply channels. The Navy Inventory Control Point, Mechanicsburg, Pennsylvania, will be the primary inventory control point for AN/SPN-35C material. The Material Support Date for AN/SPN-35C is tentatively scheduled for June 2004. Interim support will be provided by the ISEA.
 - **6. Human Systems Integration.** NA

K. SCHEDULES

1. Installation and Delivery Schedules. The installation and delivery schedule is subject to change based on ship availability and funding. The table below is the amount of proposed installations based on the current funding. For information on the schedule and updates contact ISEA, NAWCAD St. Inigoes, Code 4.5.8.1.2.

AN/SPN-35C INSTALLATIONS (NUMBER OF SYSTEMS)							
FY01 FY02 FY03 FY04 FY05 FY06 FY0'							
2 SYS	2 SYS	2 SYS	3 SYS	3 SYS	3 SYS	1 SYS	

- **2. Ready For Operational Use Schedule.** The AN/SPN-35C will be ready for operational use following installation at each activity.
- **3. Time Required to Install at Operational Sites.** Installation time for the AN/SPN-35C is expected to take between eight and ten weeks.
 - 4. Foreign Military Sales and Other Source Delivery Schedule. NA
- **5.** Training Device and Technical Training Equipment Delivery Schedule. The AN/SPN-35B TTE for the maintenance course will be upgraded to the AN/SPN-35C configuration. This upgrade is scheduled for installation at NATTC Pensacola in 2nd Qtr. FY04. ISEA, NAWCAD St. Inigoes, will develop prefaulted and faultable modules for testing and troubleshooting training in the maintenance course. These modules are required to conduct effective maintenance training on the AN/SPN-35C. The TD 15G30 AATCC Trainer used in the AATCC Operations and ATCC Team Training courses will be modified to replicate AN/SPN-35C operator display/functionality. This is scheduled for completion in FY04 when 50% of the LH type ships are equipped with AN/SPN-35C.

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AN/SPN-35 System Upgrade Allocated Baseline Description	CDRL A003 Revision A	PMA213	Approved Jun 99
AN/SPN-35C Maintenance Plan	TBD, New development	PMA213	Pending
AN/SPN-35B User's Logistic Support Summary	ULSS-ATC-019	PMA213	Approved Feb 99

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the AN/SPN-35C and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

- II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule
- II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities
- II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE : Total Force Manpower Manageme	MMS)				DATE:	6/1/99	
ACTIVITY, UIC		PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - NAVY							
LHA 2, USS Saipan	20632	1	0	0	0	0	0
LHA 4, USS Nassau	20725	1	0	0	0	0	0
LHD 1, USS Wasp	21560	1	0	0	0	0	0
LHD 3, USS Kearsarge	21700	1	0	0	0	0	0
LHD 5, USS Bataan	21879	1	0	0	0	0	0
LHD 7, USS Iwo Jima	23027	1	0	0	0	0	0
LHA 1, USS Tarawa	20550	1	0	0	0	0	0
LHA 3, USS Belleau Wood	20633	1	0	0	0	0	0
LHA 5, USS Peleliu	20748	1	0	0	0	0	0
LHD 2, USS Essex	21533	1	0	0	0	0	0
LHD 4, USS Boxer	21808	1	0	0	0	0	0
LHD 6, USS Bonhomme Richard	22202	1	0	0	0	0	0
MCS 12, USS Inchon	20009	1	0	0	0	0	0
TOTAL:		13	0	0	0	0	0
FLEET SUPPORT ACTIVITIES - NAVY							
FTSCLANT Norfolk, Virginia	65912	1	0	0	0	0	0
NAWCAD, St. Inigoes	64485	1	0	0	0	0	0
TOTAL:		2	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILL OFF	ETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
OPERATIONAL ACTIVITIES - NAVY					
LHA 2, USS Saipan, 20632 ACDU	0 0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568 1568
ACTIVITY TOTAL:	0	15			
LHA 4, USS Nassau, 20725 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568 1568
ACTIVITY TOTAL:	0	15			
LHD 1, USS Wasp, 21560 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602	1568
ACTIVITY TOTAL:	0	15			
ACTIVITY TOTAL .	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568
ACTIVITY TOTAL:	0	15			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILL OFF	ETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LHD 5, USS Bataan, 21879 ACDU	0 0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568
ACTIVITY TOTAL:	0	15			
LHD 7, USS Iwo Jima, 23027 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568
ACTIVITY TOTAL:	0	15			
LHA 1, USS Tarawa, 20550 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568 1568
ACTIVITY TOTAL:	0	15			
LHA 3, USS Belleau Wood, 20633 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568 1568
ACTIVITY TOTAL:	0	15			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILL OFF	ETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
LHA 5, USS Peleliu, 20748 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602	1568 1568
ACTIVITY TOTAL:	0	15			
LHD 2, USS Essex, 21533 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602	1568
ACTIVITY TOTAL:	0	15			
LHD 4, USS Boxer, 21808 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602 9602	1568
ACTIVITY TOTAL:	0	15			
LHD 6, USS Bonhomme Richard, 22202 ACDU	0 0 0 0 0	1 1 7 3 1 1	ACC AC1 AC2 AC3 ETC ET2 ET3	6903 6903 6903 6903 9602 9602	1568
ACTIVITY TOTAL:	0	15			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILL OFF	ETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
MCS 12, USS Inchon, 20009 ACDU	0 0 0	1 1 1 1	ACC AC2 ETC ET3	6903 6903 9602 9602	
TAR	0 0 0	2 1 1	AC2 AC3 ET2	6903 6903 9602	
SELRES	0 0	1 2	AC1 AC2	6903 6903	
ACTIVITY TOTAL:	0	11			
FLEET SUPPORT ACTIVITIES - NAVY					
FTSCLANT Norfolk, Virginia, 65912 ACDU	0	1	ETC	9602	1590
ACTIVITY TOTAL:	0	1			
NAWCAD, St. Inigoes, 64485 ACDU	0	1	ETC	9602	9603
ACTIVITY TOTAL:	0	1			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF ENL	CFY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL
NAVY OPER ACC AC1 AC2 AC3 ETC ET2 ET3 ET3	RATIONAL ACTIVI 6903 6903 6903 6903 9602 9602 1568 9602 9602	TIES - ACDU 13 12 85 36 13 12 8 5	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
NAVY OPER AC2 AC3 ET2	RATIONAL ACTIVI 6903 6903 9602	TIES - TAR 2 1 1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
NAVY OPEF AC1 AC2	RATIONAL ACTIVI 6903 6903	TIES - SELRES 1 2	0	0	0	0	0
NAVY FLEE ETC ETC	T SUPPORT ACTI 9602 1590 9602 9603	VITIES - ACDU 1 1	0	0	0	0	0
SUMMARY	TOTALS:						
NAVY OPER	RATIONAL ACTIVI	TIES - ACDU 184	0	0	0	0	0
NAVY OPER	RATIONAL ACTIVI	TIES - TAR 4	0	0	0	0	0
NAVY OPER	RATIONAL ACTIVI	TIES - SELRES 3	0	0	0	0	0
NAVY FLEE	T SUPPORT ACTI	VITIES - ACDU 2	0	0	0	0	0
GRAND TO	TALS:						
NAVY - AC	CDU	186	0	0	0	0	0
NAVY - TA	R	4	0	0	0	0	0
NAVY - SE	LRES	3	0	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING		C/SNEC S/SMOS	PFY: OFF E	s NL	CF\ OFF	/01 ENL	FY OFF	02 ENL	FY OFF	03 ENL	FY OFF	04 ENL	FY OFF	05 ENL
TRAINING ACTIVITY, LOCATION, UIC: NATTC Pensacola Florida, 63093														
INSTRUCTOR BILLETS														
ACDU ACCS ACC AC1 AC2 ET1 ET1	6903 6903 6903 6903 9602 1523	9502 9502 9502 9502 9502 9502	0 0 0 0 0	1 2 10 3 1										
TOTAL:			0	18	0	18	0	18	0	18	0	18	0	18
INSTRUCTO	R BILLI	ETS												
ACDU ACAN			0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2

^{*} Note: Current TFMMS data indicates a requirement for one (1) ET1 9602 9502 at NATTC Pensacola. NATTC Pensacola reports two instructor billets to support course of instruction. For the purpose of this document, only one ET1 9602 9502 will be identified.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PF OFF	Ys ENL	CFY OFF		FY OFF	02 ENL	FY(OFF	O3 ENL	FY OFF		FY OFF	05 ENL
NATTC Pensacola	a, Florida, 6309 NAVY	3	11.0		11.0		11.0		11.0		11.0		11.0
SUMMARY TOTA	LS:												
	NAVY		11.0		11.0		11.0		11.0		11.0		11.0
GRAND TOTALS	:												
			11.0		11.0		11.0		11.0		11.0		11.0

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY(+/-	01 CUM	FY0 +/-	2 CUM	FY0 +/-	3 CUM	FY0 +/-	4 CUM	FY(+/-)5 CUM
a. OFFICE	ER - USN		N	lot Applic	able								
b. ENLIST	ΓED - USN	I											
Operation ACC AC1 AC2 AC3 ETC ET2 ET2 ET3 ET3	al Billets A 6903 6903 6903 6903 9602 9602 9602 9602	1568 1568	TAR 13 12 87 37 13 1 12 8 5	0 0 0 0 0 0 0	13 12 87 37 13 1 12 8 5	0 0 0 0 0 0 0	13 12 87 37 13 1 12 8 5	0 0 0 0 0 0 0	13 12 87 37 13 1 12 8 5	0 0 0 0 0 0	13 12 87 37 13 1 12 8 5	0 0 0 0 0 0 0	13 12 87 37 13 1 12 8 5
Fleet Supp ETC ETC	port Billets 9602 9602	ACDU an 1590 9603	d TAR 1 1	0	1 1	0	1 1	0	1 1	0	1 1	0	1 1
Staff Billet ACCS ACC AC1 AC2 ET1	6903 6903 6903 6903 6903 9602	nd TAR 9502 9502 9502 9502 9502	1 2 10 3 1	0 0 0 0	1 2 10 3 1	0 0 0 0	1 2 10 3 1	0 0 0 0	1 2 10 3 1	0 0 0 0	1 2 10 3 1	0 0 0 0	1 2 10 3 1
Chargeab	le Student	Billets AC	DU and TAF		44	0	44	0	44	0	44	0	44
SELRES I AC1 AC2	Billets 6903 6903		11 1 2	0 0 0	11 1 2	0 0	11 1 2	0 0 0	11 1 2	0 0 0	11 1 2	0 0	11 1 2
TOTAL U	SN ENLIS	TED BILL	ETS:										
Operation	al		188	0	188	0	188	0	188	0	188	0	188
Fleet Supp	port		2	0	2	0	2	0	2	0	2	0	2
Staff			17	0	17	0	17	0	17	0	17	0	17
Chargeab	le Student		11	0	11	0	11	0	11	0	11	0	11
SELRES			3	0	3	0	3	0	3	0	3		
c. OFFICE	ER - USMO	2	N	lot Applic	able								
d. ENLIST	ΓED - USN	ИC	N	lot Applic	able								

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations

COURSE LENGTH: 6.0 Weeks TOUR LENGTH: 36 Months ATTRITION FACTOR: Navy: 10% BACKOUT FACTOR: 0.12

TRAINING		ACDU/TAR		′ 01	FY02 FY03		03	FY04		FY05		
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC Pens	acola Florida											
	NAVY	ACDU		54		54		54		54		54
		TAR		1		1		1		1		1
		SELRES		0		1		0		0		0
		TOTAL:		55		56		55		55		55

CIN, COURSE TITLE: C-222-2020, Amphibious Air Traffic Control Center Team Training

COURSE LENGTH: 2 Weeks TOUR LENGTH: 36 Months
ATTRITION FACTOR: NA BACKOUT FACTOR: NA

TRAINING ACTIVITY SOURCE	ACDU/TAR SELRES	CFY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL	FY04 OFF ENL	FY05 OFF ENL
NATTC Pensacola Florida		OFF ENL	OFF ENL	OFF EINL	OFF ENL	OFF ENL
NAVY	ACDU	80	80	80	80	80
	TOTAL:	80	80	80	80	80

CIN, COURSE TITLE: C-103-2116, AN/SPN-43C Amphibious Air Traffic Control Radar Maintenance Technician Pipeline

COURSE LENGTH: 20 Weeks TOUR LENGTH: 36 Months ATTRITION FACTOR: Navy: 10% BACKOUT FACTOR: 0.39

TRAINING	ACDU/TAR	CFY01	FY02	FY03	FY04	FY05
ACTIVITY SOURCE	SELRES	OFF ENL				
NATTC Pensacola Florida						
NAVY	ACDU	15	15	15	15	15
	TOTAL:	15	15	15	15	15

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the AN/SPN-35C and, therefore, are not included in Part III of this NTSP:

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

PART III - TRAINING REQUIREMENTS

III.A.1. INITIAL TRAINING REQUIREMENTS

COURSE TITLE: AN/SPN-35C Initial Maintenance (Differences) Training

COURSE DEVELOPER: NAWCAD, St. Inigoes COURSE INSTRUCTOR: NAWCAD, St. Inigoes

COURSE LENGTH: TBD

ACTIVITY DESTINATIONS: NATTC Pensacola, LHD-7 USS Iwo Jima

For other ships, see installation schedule, Part 1, section K.1.

LOCATION, UIC

NAWCAD St. Inigoes, 00421

Mar 01

TBD

AOB
Chargeable

COURSE TITLE: AN/SPN-35C Initial Operator (Differences) Training

COURSE DEVELOPER: NATTC Pensacola **COURSE INSTRUCTOR:** NATTC Pensacola

COURSE LENGTH: TBD

ACTIVITY DESTINATIONS: NATTC Pensacola, LHD-7 USS Iwo Jima

For other ships, see installation schedule, Part 1, section K.1.

LOCATION, UIC
At installation site, 64485

BEGIN STUDENTS

DATE OFF ENL CIV

Mar 01

16

TBD

AOB

Chargeable

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

	5	FY0	FY04		FY03		FY02		CFY01	
	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF
ATIR	55		55		55		55		55	
Output	49		49		49		49		49	
AOB	5.7		5.7		5.7		5.7		5.7	
Chargeable	5.7		5.7		5.7		5.7		5.7	

SOURCE: NAVY **STUDENT CATEGORY**: SELRES

CFY	′ 01	FY02		FY	03	FY	FY04 FY05		5	
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0.0		0.1		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: C-222-2020, Amphibious Air Traffic Control Center Team Training

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

SOURCE: NAVY **STUDENT CATEGORY**: ACDU - TAR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	80		80		80		80		80	ATIR
	80		80		80		80		80	Output
	0.0		0.0		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: C-103-2116, AN/SPN-43C Amphibious Air Traffic Control Radar Maintenance Technician Pipeline

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

SOURCE: NAVY STUDENT CATEGORY: ACDU - TAR

CFY	Y01 FY02)2	FY	03	FY	04	FY0		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	15		15		15		15		15	ATIR
	14		14		14		14		14	Output
	5.3		5.3		5.3		5.3		5.3	AOB
	5.3		5.3		5.3		5.3		5.3	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the AN/SPN-35C and, therefore, are not included in Part IV of this NTSP:

- IV.C. Facility Requirements (Note 1)
 - IV.C.1. Facility Requirements Summary (Space/Support) by Activity
 - IV.C.2. Facility Requirements Detailed by Activity and Course
 - IV.C.3. Facility Project Summary by Program
- **Note 1:** The AN/SPN-35C will upgrade the current TTE at NATTC Pensacola and will not require additional space or facility requirements.
- **Note 2:** The technical manuals listed are currently being utilized at NATTC Pensacola for training the AN/SPN-35B. NAWCAD St. Inigoes is developing new technical manuals for the AN/SPN-35C. The preliminary AN/SPN-35C technical manuals are scheduled for delivery in October 2001 and will be included in future updates to this NTSP, as information becomes available.
- **Note 3:** Currently, there are no Technical Manuals requirements in the Amphibious Air Traffic Control Center Operations course; however, NAWCAD St. Inigoes will provide an Operators Handbook.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

TRAIN	OURSE TITLE: ING ACTIVITY: TION, UIC:	C-222-2019, Amphibious Air Traffic Control Center Operations NATTC Pensacola Florida, 63093	S			
ITEM NO.	EQUIPMENT / TYPE OR RAN	IGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
ST 09	Headset, Micro	phone	24	TBD	GFE	Onboard
10	Plotting Board,	Ship's Status	5	TBD	GFE	Onboard
TRAIN	OURSE TITLE: ING ACTIVITY: IION, UIC:	C-222-2020, Amphibious Air Traffic Control Center Team Trai NATTC Pensacola Florida, 63093	ning			
ITEM No.	EQUIPMENT / TYPE OR RAN	IGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
ST 09	Headset, Micro	phone	16	TBD	GFE	Onboard
10	Plotting Board,	Ship's Status	5	TBD	GFE	Onboard
TRAIN	OURSE TITLE: ING ACTIVITY: IION, UIC:	CIN TBD, AN/SPN-35C Maintenance (Track C-103-2116) NATTC Pensacola Florida, 63093				
ITEM No.	EQUIPMENT / TYPE OR RAN	IGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE 01	AN/SPN-35C R	Padar Set	1	Apr 02	GFE	Pending
GPETE	=					

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE 01	AN/SPN-35C Radar Set	1	Apr 02	GFE	Pending
GPET 02	E 54829N Oscilloscope	2	Apr 02	GFE	Onboard
03	77AN Multimeter	1	Apr 02	GFE	Onboard
04	AN/UPM-145 X-Band Radar Test Set	1	Apr 02	GFE	Onboard
05	Probe Test, Lead Assembly	6	Apr 02	GFE	Onboard
06	Dummy Load, Electric	4	Apr 02	GFE	Onboard
07	Adapter, Waveguide	3	Apr 02	GFE	Onboard
08	Tool Kit, Electronic System	1	Apr 02	GFE	Onboard
09	E4407S-E57 Spectrum Analyzer	1	Apr 02	GFE	TBD
10	2-30 Attenuator Fixed 30DB 5W 0-18.0 GHZ	2	Apr 02	GFE	TBD

IV.A.2. TRAINING DEVICES

DEVICE: 15G30 AATCC Trainer

DESCRIPTION: The trainer provides realistic training and practice in control of air traffic in the environment surrounding

a LH type ship from the AATCC.

MANUFACTURER: LOGICON

CONTRACT NUMBER: N61339-86-C-0108

TEE STATUS: NA

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

QTY DATE RFT COURSES
REQD DATE STATUS SUPPORTED

1 TBD TBD Pending C-222-2019
C-222-2020

IV.B. COURSEWARE REQUIREMENTS

IV.B.1. TRAINING SERVICES

COURSE / TYPE OF TRAINING	SCHOOL LOCATION, UIC	NO. OF PERSONNEL	MAN WEEKS REQUIRED	DATE Begin
AN/SPN-35C Initial Maintenance (Differences) Training	NAWCAD St. Inigoes, 00421	2	TBD	Mar 02
AN/SPN-35C Initial Operator Training (Differences) Training	At installation site, 64485	2	TBD	Mar 02

Note: The requirements above are for each individual installation

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-222-2019, Amphibious Air Traffic Control Center Operations

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

	QTY	DATE	
TYPES OF MATERIAL OR AID	REQD	REQD	STATUS
Instructor Guides	10	Oct 01	Pending
Projector, Overhead	1	Oct 01	Onboard
Reproducer, Video	1	Oct 01	Onboard
Student Guides	100	Oct 01	Pending
Television Set	1	Oct 01	Onboard
Operator's Handbook	1	Oct 01	Pending

CIN, COURSE TITLE: C-222-2020, Amphibious Air Traffic Control Center Team Training

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

	QIY	DATE	
TYPES OF MATERIAL OR AID	REQD	REQD	STATUS
Instructor Guides	10	Oct 01	Pending
Student Guides	100	Oct 01	Pending
Fleet Exercise Publication 5	1	Oct 01	Pending

CIN, COURSE TITLE: CIN TBD, AN/SPN-35C Maintenance (Track C-103-2116)

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola Florida, 63093

	QTY	DATE	
TYPES OF MATERIAL OR AID	REQD	REQD	STATUS
Instructor Guides	10	Apr 04	Pending
Student Guides	30	Apr 04	Pending

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-222-2020, Amphibious Air Traffic Control Center Team Training

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NAVAIR 00-80T-106 LHA/LPH/LHD NATOPS	Hard Copy	1	Oct 01	Onboard

CIN, COURSE TITLE: CIN TBD, AN/SPN-35 Maintenance (Track C-103-2116)

TRAINING ACTIVITY: NATTC

LOCATION, UIC: Pensacola, Florida, 63093

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
EE216-AF-OMI-010/SPN-35C/ Aircraft Control Approach Central AN/SPN-35 Volume 1	Hard copy	10	Mar 02	Pending
EE216-AF-OMI-020/SPN-35C/ Aircraft Control Approach central AN/SPN-35C Volume 2	Hard copy	10	Mar 02	Pending
EE216-AF-OMI-030/SPN-35C/ Aircraft Control Approach Central AN/SPN-35C Volume 3	Hard copy	10	Mar 02	Pending

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Conducted analysis of MPT requirements	Jun 99	Completed
TSA	Distributed Draft NTSP for review	Nov 99	Completed
TSA	Submit Proposed NTSP to OPNAV	Mar 01	Completed
NAWCAD	Begin system testing	Nov 00	In Progress
OPO	Approve and promulgate NTSP	Apr 01	Pending
NAWCAD	Deliver Preliminary technical manuals	Oct 01	Pending
NAWCAD	Deliver curricula materials	Mar 02	Pending
NAWCAD	Begin AN/SPN-35C initial training	Mar 02	Pending
NAWCAD	Upgrade AN/SPN-35 Technical Training Equipment to the AN/SPN-35C configuration	Apr 04	Pending
NAWCAD	Upgrade 15G30 AATCC Trainer to the AN/SPN-35C configuration	TBD	Pending
PDA	Achieve Initial Operating Capability	Jul 03	Pending
PDA	Achieve Material Support Date for the AN/SPN-35C	Jun 04	Pending
PDA	Achieve Navy Support Date for the AN/SPN-35C	Dec 04	Pending
NAWCAD	Begin AN/SPN-35B Training	Feb 04	Pending
TSA	Begin AN/SPN-35C follow-on maintenance training	Apr 04	Pending

PART VI - ACTION ITEMS / ACTION REQUIRED

ACTION ITEM OR ACTION REQUIRED

COMMAND ACTION DUE DATE STATUS

None

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL **TELEPHONE NUMBERS CAPT Owen Fletcher COMM**: (703) 604-7747 Head, Plans, Policy, and Fleet Maintenance Support DSN: 664-7747 CNO, N781B FAX: (703) 604-6972 fletcher.owen@hq.navy.mil **COMM**: (703) 697-9359 **CDR Wanda Janus** Resource Sponsor / Program Sponsor 227-9359 DSN: CNO, N785D1 FAX: (703) 695-7103 janus.wanda@hq.navy.mil **CAPT Terry Merritt COMM**: (703) 604-7730 Head, Aviation Technical Training Branch DSN: 664-7730 CNO, N789H FAX: (703) 604-6939 merritt.terry@hq.navy.mil **AZCS Gary Greenlee COMM**: (703) 604-7743 NTSP Manager DSN: 664-7743 CNO, N789H1A FAX: (703) 604-6939 greenlee.gary@hq.navy.mil **CDR Kevin Neary COMM**: (703) 695-3247 **Aviation Manpower** DSN: 225-3247 CNO, N122C1 FAX: (703) 614-5308 n122c1@bupers.navy.mil Mr. Robert Zweibel **COMM**: (703) 614-1344 Training Technology Policy DSN: 224-1344 CNO, N795K FAX: (703) 695-5698 zweibel.robert@hg.navy.mil **CAPT James Campbell** COMM: (301) 862-6301 Program Manager ATC and LS DSN: 342-3512 ext. 6301 NAVAIRSYSCOM, PMA213 FAX: (301) 862-6328 campbelljl@navair.navy.mil **ACCM Howard McGrath COMM**: (301) 757-8126 Assistant Program Manager, Training Systems DSN: 757-8126 NAVAIRSYSCOM, PMA2053B1 FAX: (301) 757-6945 mcgrathhj@navair.navy.mil Mr. Ben Fenhagen **COMM**: (301) 862-6310 Assistant Program Manager, Logistics DSN: 342-3512 ext. 6310 NAVAIRSYSCOM, AIR 3.1.4B FAX: (301) 862-6328 fenhagenbp@navair.navy.mil

VII-1

COMM: (301) 862-8368

342-3512 ext. 8368

(301) 862-8481

DSN:

FAX:

Mr. Brad Hierstetter

Deputy APML for ATC and LS

NAWCAD St. Inigoes, 3.1.4.1

Hierstetterbrad@atc-ls.stinigoes.navy.mil

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL TELEPHONE NUMBERS **CDR Robin Mason** COMM: (757) 836-0101 Aviation NTSP Manager DSN: 863-0101 CINCLANTFLT, N-721 FAX: (757) 863-0141 masonrf@clf.navy.mil LT Clifford Lanphier COMM: (808) 471-8529 Tactical Training Officer DSN: 471-8529 CINCPACFLT, N-73 FAX: (808) 471-8596 lanphics@cpf.navy.mil **CAPT Patricia Huiatt COMM**: (901) 874-3529 Deputy Assistant, Chief of Military Personnel for Distribution DSN: 882-3529 NAVPERSCOM, PERS-4B FAX: (901) 874-2606 p4b@persnet.navy.mil **CDR Timothy Ferree COMM**: (901) 874-3691 Branch Head, Aviation Enlisted Rating DSN: 882-3691 NAVPERSCOM, PERS-404 FAX: (901) 874-2642 p404@persnet.navy.mil **CDR Henry Pitts COMM**: (901) 874-3791 Head, Technical Assignments Branch DSN: 882-3791 NAVPERSCOM, PERS-406 FAX: (901) 874-2643 p406@persnet.navy.mil Mr. Al Sargent COMM: (901) 874-6247 NTSP Coordinator DSN: 882-6247 NAVMAC, 33 FAX: (901) 874-6471 al.sargent@navmac.navy.mil **CDR Erich Blunt COMM**: (850) 452-4915 Aviation Technical Training DSN: 922-4915 CNET, ETE-32 FAX: (850) 452-4901 cdr-erich.blunt@smtp.cnet.navy.mil **ETC Jennifer Brake** COMM: (850) 452-7023 Maintenance Training DSN: 922-7023 NATTC Pensacola FAX: (850) 452-7006 etc-jennifer.l.brake@cnet.navy.mil **ACC Charles Matthies** COMM: (850) 452-7021 **AATCC Course Supervisor** DSN: 922-7021 NATTC Pensacola FAX: (850) 452-1764 acc-charles.e.matthies@cnet.navy.mil

AWCS William Rainwater

NETPDTC Pensacola, N3413

awcs-william.rainwater@stmp.cnet.navy.mil

PQS Development

COMM: (850) 452-1035

452-1035

(850) 452-1764

DSN:

FAX:

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL

TELEPHONE NUMBERS

Mr. Phil SzczyglowskiCOMM:(301) 757-8280Competency ManagerDSN:757-8280NAVAIRSYSCOM, AIR 3.4.1FAX:(301) 342-7737szczyglowspr@navair.navy.mil

 Mr. Bob Kresge
 COMM:
 (301) 757-1844

 NTSP Manager
 DSN:
 757-1844

 NAVAIRSYSCOM, AIR 3.4.1
 FAX:
 (301) 342-7737

 kresgerj@navair.navy.mil
 (301) 342-7737

 ATCS David Morris
 COMM:
 (301) 757-3093

 NTSP Coordinator
 DSN:
 757-3093

 NAVAIRSYSCOM, AIR 3.4.1
 FAX:
 (301) 342-7737

 morrisdm@navair.navy.mil
 (301) 342-7737

 AE1 Calvin Stone
 COMM:
 (301) 757-3091

 MPT Analyst
 DSN:
 757-3091

 NAVAIRSYSCOM, AIR 3.4.1
 FAX:
 (301) 342-7737

 barthbk@navair.navy.mil
 FAX:
 (301) 342-7737

SUMMARY OF COMMENTS

ON THE

AN/SPN-35C AIRCRAFT CONTROL APPROACH CENTRAL

DRAFT NAVY TRAINING SYSTEM PLAN

OF NOVEMBER 1999

N88-NTSP-A-50-XXXX/D

AND

AN/SPN-35C AIRCRAFT CONTROL APPROACH CENTRAL

PROPOSED NAVY TRAINING SYSTEM PLANS

OF SEPTEMBER 2000 AND MARCH 2001

N88-NTSP-A-50-9908/P

Prepared by: AE1 Calvin Stone, AIR-3.4.1 **Contact at:** (301) 757-3091

Contact at: (301) 757-3091 **Date submitted:** 01 March 2001

TABLE OF CONTENTS

ACTIVITIES PROVIDING COMMENTS ON DRAFT

Naval Air Warfare Center Aircraft Division	1
Naval Air Technical Training Center	5
ACTIVITIES PROVIDING COMMENTS ON PROPOSED	
Naval Air Warfare Center Aircraft Division	12
Naval Air Technical Training Center	21

Prepared by: AE1 Calvin Stone, AIR-3.4.1 Contact at: (301) 757-3091

Contact at: (301) 757-3091 **Date submitted:** 01 March 2001

DRAFT COMMENTS

ACTIVITY NAME: Naval Air Warfare Center Aircraft Division, St. Inigoes

COMMENT: Page i, paragraph 1, fifth sentence

Change to read: "These requirements will be met by replacing the antenna drive reducers motors, antenna actuators, syncros, radar-set control, control-indicator selector, antenna control circuits, transmitter, receiver, and display consoles."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-2, paragraph F.

Change to read: "The upgrade will replace the existing drive reducers motors, syncros, radar-set control, control-indicator selector, antenna control circuits, transmitter, receiver, and display consoles with all new solid state components designed to extend the life-cycle of the current system."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-2, paragraph G.1, third sentence

Change to read: "These requirements will be met by replacing the antenna drive reducers motors, syncros, radar-set control, control-indicator selector, antenna actuators, antenna control circuits, transmitter, receiver, and display consoles."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-2, paragraph G.2 table

Delete rows 2 and 5.

INCORPORATED: YES

COMMENT: Page I-3, paragraph G.5, second sentence

Change to read: "The upgrade will replace the existing drive motors, syncros, radar-set control, control-indicator selector, antenna control circuits, transmitter, receiver, and display consoles with all new solid-state components designed to extend the life-cycle of the current system."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.2.a.1

Delete pressure checks.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, last sentence.

Change AN/SPN-35A/B to read AN/SPN-35B.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, paragraph K.1

Change to read: "The installation and delivery schedule is subject to change based on ship availability and funding. The table below is the amount of proposed installations based on the current funding. For information on the schedule and updates contact ISEA, NAVAIRWARCENACDIV St. Inigoes, Code 4.5.8.1.2."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, paragraph K.1

Change table to read:

FY01	FY02	FY03	FY04	FY05	FY06	FY07	l
2 SYS	2 SYS	2 SYS	3 SYS	3 SYS	3 SYS	1 SYS	

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, paragraph K.5, first sentence

Change July 2001 to August 2002.

INCORPORATED: YES

REMARKS: None

COMMENT: Page III-2

Change the begin date for the differences training from Jan 01 to Mar 01.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-1, note 2

Change the word new to preliminary.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-1, note 3

Change to read: "Currently, there are no Technical Manuals requirements in the Amphibious Air Traffic Control Center Operations course, however NAWCAD St.

Inigoes will provide an Operators Handbook."

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2, first course

Change all dates required to: Apr 02.

INCORPORATED: YES

COMMENT: Page IV-2, second course

Change all dates required to: TBD

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-3

Replace dates with TBD.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-4

Change Date Begin from Jan 01 to Mar 01.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-5, Course C-222-2019

Add Operator's Handbook.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-6

Change second technical manual to read: NAVAIR 16-60SPN35B-1-2, Volume 2,

Operating Instructions.

INCORPORATED: YES

ACTIVITY NAME: Naval Air Technical Training Center Pensacola

COMMENT: Page I-5, H.4.b Follow-on Training

Change to read "required 35B training will be conducted at St. Inigoes as a Non Traditional Training Site (NTTS)".

INCORPORATED: YES

REMARKS: None

COMMENT: Page i, Executive Summary and global

Change "Initial Training" to read "Delivery Training"

INCORPORATED: NO

REMARKS: Initial Training is the correct requirement to be documented.

COMMENT: Page i, Executive Summary and global

Change "Follow-on training" to read "Formal Training"

INCORPORATED: NO

REMARKS: Follow-on Training is the correct requirement to be documented.

COMMENT: Page i, Executive Summary, first paragraph, second sentence and global

Change to read "The AN/SPN-35B is deployed on the Landing Helicopter (LH) type ships to provide course and glideslope talkdown guidance to Navy and Marine Corps aircraft."

INCORPORATED: YES

REMARKS: None

COMMENT: Page i, Executive Summary first paragraph, third sentence and global

Change to read "The AN/SPN-35B radar set is used in conjunction with a Vertical/Short Take-off and Landing, Optical Landing System and the AN/SPN-41A Instrument Carrier Landing System for precision landing operations."

INCORPORATED: YES

COMMENT: Page i, Executive Summary, fourth paragraph, third sentence

Change to read "NATTC Pensacola will develop the formal training curricula for the operator and maintainer courses with technical assistance provided by ISEA, NAWCAD St. Inigoes."

INCORPORATED: Not exactly as submitted

REMARKS: Changed original wording by adding Follow-on.

COMMENT: Page iii, List of acronyms

Delete PALS and add PAR

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-1, paragraph D.1, first sentence and global

Change to read "The AN/SPN-35C Aircraft Control Approach Central Radar Set is a Precision Approach Radar (PAR) deployed on the Landing Helicopter (LH) type ships to provide course and glideslope talkdown guidance to Navy and Marine Corps aircraft."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-3, Table in paragraph G.2

Delete one of the receivers in table (duplicated).

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.4, third sentence

Change to read "NATTC Pensacola will develop formal training curricula for the operator and maintainer courses."

INCORPORATED: YES, but not word for word as submitted.

REMARKS: Added Follow-on to the original sentence.

COMMENT: Page I-4, paragraph H.4.a, second sentence

Change to read "The initial training for shipboard technicians and NATTC instructors is expected to begin during second quarter FY01."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.a, first course listing, Operator

Change course description to read "This course provides AATCC AC personnel previously trained on the AN/SPN-35B with the knowledge and skills necessary to operate the AN/SPN-35C."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.a, first course listing, Operator

Change TTE/TD to read "TTE for ships is the installed AN/SPN-35C. TD for NATTC is the 15G30 AATCC Trainer that must be modified to replicate AN/SPN-35C operator display/functionality."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.a, second course listing, Maintainer

Change course description to read "This course provides AATCC ET personnel previously trained on the AN/SPN-35B with the knowledge and skills necessary to operate and maintain the AN/SPN-35C."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.b and global change

Change AN/SPN-35A/B to AN/SPN-35B

INCORPORATED: YES

COMMENT: Page I-6, paragraph H.4.b, first course listing

Change RFT date to read "Fourth Quarter FY04, at the time AN/SPN-35C is installed on 50% of LH type ships."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, paragraph H.4.b, first course listing

Change TTE/TD to read "TD is the 15G30 AATCC Trainer, which must be modified to replace AN/SPN-35C operator display/functionality."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6

Add Amphibious Air Traffic Control Center Team Training, Class T1.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-6, paragraph H.4.b, second course listing, Maintenance

Change course from AN/SPN-43C Amphibious Air Traffic Control Radar maintenance technician pipeline to AN/SPN-35C Maintenance Technician course.

INCORPORATED: NO

REMARKS: Must go through pipeline to receive NEC. Difference courses will be for personnel previously trained on AN/SPN-35B.

COMMENT: Page I-7, paragraph I.2

Change to read "shipboard training" vice "onboard training"

INCORPORATED: YES

COMMENT: Page I-8, paragraph J.5, second sentence

Change to read "Repair parts will be procured through normal supply channels. The Navy Inventory Control Point, Mechanicsburg, Pennsylvania, will be the primary inventory control point for AN/SPN-35C material. The Material Support Date for AN/SPN-35C is tentatively scheduled for first quarter FY03. Interim support will be provided by the ISEA."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-8, paragraph K.5

Change to read "The AN/SPN-35B TTE for the maintenance course will be upgraded to the AN/SPN-35C configuration. This upgrade is scheduled for installation at NATTC Pensacola in August 2002. ISEA, NAVAIRWARCENACDIV St. Inigoes, will develop prefaulted and faultable modules for testing and troubleshooting training in the maintenance course. These modules are required to conduct effective maintenance training on the AN/SPN-35C. The Training Device (TD) 15G30 AATCC Trainer used in the AATCC Operations and ATCC Team Training courses will be modified to replicate AN/SPN-35C operator display/functionality. This should be scheduled for completion in FY04 when 50% of the LH type ships are equipped with AN/SPN-35C."

INCORPORATED: YES

REMARKS: None

COMMENT: Page II-8

Add 2 ACAN.

INCORPORATED: YES

REMARKS: None

COMMENT: Page II-8

Change ET1 from 4 to 2.

INCORPORATED: YES

COMMENT: Page II-11

Add AATCC Team Training.

INCORPORATED: YES

REMARKS: None

COMMENT: Page III-3

Add AATCC Team Training.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2

Add AATCC Team Training.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-3

Change "Device" from "AATCC Trainer Computer Assembly" to "15G30 AATCC

Trainer" and add C-222-2020 to "Courses Supported."

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-4

Change Man-Weeks Required to TBD for both courses.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-5, first course

Change Student Guide QTY from 100 to 30.

INCORPORATED: YES

COMMENT: Page IV-5

Add AATCC Team Training.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-6

Change both Date Reqd from Jan 89 to Jan 99.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1

Change begin initial training from TSA to NAWCAD.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1

Change deliver curricula from TSA to NAWCAD deliver initial training curricula to TSA.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1

Separate out the TTE for maintenance and the TD for AATCC operators: Date FY03.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1

Change TSA....Begin AN/SPN-35C follow-on training...OCT 01 to: TSA... Begin

AN/SPN-35C follow-on maintenance training.....Jan 02.

INCORPORATED: YES

COMMENTS ON PROPOSED

ACTIVITY NAME: Naval Air Warfare Center Aircraft Division, St. Inigoes

COMMENT: Title Page

Change to read: "AN/SPN-35C Aircraft Control Approach Central". Make this same

change throughout the document.

INCORPORATED: YES

REMARKS: None

COMMENT: Page i, lines 2 thru 4

Change to read: "The AN/SPN-35B is deployed on Amphibious Assault (LH) type ships to provide course and glide slope talk-down guidance to Navy and Marine Corps aircraft. The ship's air controller, using the AN/SPN-35B radar set, provides verbal direction to the aircraft's pilot. The pilot uses this direction in addition to guidance provided by a Vertical/Short Take-off and Landing, Optical Landing System and the AN/SPN-41A Instrument Carrier Landing System for precision landing operations."

INCORPORATED: YES

REMARKS: None

COMMENT: Page i, line 7

Change to read: "These requirements will be met by replacing the antenna drive reducers

and motors."

INCORPORATED: YES

REMARKS: None

COMMENT: Page i, last line

Change to read: "NATTC Pensacola will develop the curricula for the operator course with technical assistance provided by ISEA, NAWCAD St. Inigoes. NAWCAD will develop the curricula for the maintainer course with assistance provided by NATTC."

INCORPORATED: YES

COMMENT: Page v, Preface, last line

Change "Landing Helicopter ships" to Amphibious Assault ships.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-1, paragraph A.1

Drop the "Radar Set" off of title.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-1, paragraph D.1, first line

Drop the "Radar Set" off of title.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-1, paragraph D.1, last line

Change to read: "The radar set is used by the ship's air controller to provide verbal guidance to the aircraft pilot. The pilot uses this information in addition to information provided by a Vertical/Short Take-off and Landing, Optical Landing System and the AN/SPN-41A Instrument Control Landing System for precision landing operations."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-2, paragraph F.1, line 3

Change "existing drive reducers motors..." to "existing drive reducers and motors..."

INCORPORATED: YES

COMMENT: Page I-2, paragraph G.1, line 5

Change "replacing drive reducers motors..." to "replacing drive reducers and motors..."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-3, paragraph G.4

Change to read "...will interface with the ship's power distribution system, pitch and roll gyro data for antenna stabilization, ship's Mute, and Battle Force Tactical Training (BFTT) system."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.2.a(2)

Change to read "...fault isolation to Line Replaceable Units (LRUs) using BIT, Maintenance Assist Modules (MAMs), and General Purpose Electronic Test Equipment (GPETE). CM also includes removal and replacement of faulty LRUs, and operational test to verify repairs."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.2.c

Change to read "...consists of repairs to LRUs beyond the capability..."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.2.d

July 2003 to June 2004

INCORPORATED: YES

COMMENT: Page I-4, paragraph H.4

Change to read "NATTC Pensacola will develop the curricula for the operator course with technical assistance provided by ISEA, NAWCAD St. Inigoes. NAWCAD will develop the curricula for the maintainer course with technical assistance provided by NATTC."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.4.a

Change to read "...will provide initial instructor and maintainer training at NAWCAD, St. Inigoes, MD in conjunction with AN/SPN-35C installation. This requirement will exist..."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.a

Change FY01 to FY02

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.a, initial maintenance differences training, location

Change "NATTC Pensacola, LHD 7, Other ships during installation" to NAWCAD St.

Inigoes, MD.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-5, paragraph H.4.b, line 1

Strike the "and maintenance" out of line.

INCORPORATED: YES

COMMENT: Page I-5, paragraph H.4.b, line 5

Replace C-103-2012 with CIN TBD.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, paragraph J.3

Change "invalidated" to unvalidated.

INCORPORATED: No

REMARKS: Changed wording to "not validated".

COMMENT: Page I-10, paragraph J.4

Change to read "The AN/SPN-35C will be maintained with GPETE and common hand tools."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-10, paragraph J.5

Change date from "July 2003" to June 2004.

INCORPORATED: YES

REMARKS: None

COMMENT: Page III-2, paragraph III.A.1, location UIC

Change "At installation site, 64485" to NAWCAD St. Inigoes, 00421.

INCORPORATED: YES

COMMENT: Page III-2, paragraph III.A.1, operator training course developer, course instructor

Change Course Developer and Course Instructor form "NAWCAD St. Inigoes" to NATTC Pensacola.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-1, Note 2

Change delivery date from "December 2000" to October 2001.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2, paragraph IV.A.1

Change "C-130-2012" to CIN TBD

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2, paragraph IV.A.1, CIN TBD, GPETE, item 2

Change from "Tektronix 2246" to 54825N.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-2, paragraph IV.A.1,CIN TBD, GPETE

Add the following items

09 E4407S-E57 Spectrum Analyzer 1 Apr 02 GFE TBD

10 2-30 Attenuator Fixed 30DB 5W 0-18 GHZ Apr 02 GFE TBD

INCORPORATED: YES

COMMENT: Page IV-5, paragraph IV.B.1

Change school location UIC from "At installation site, 64485" to NAWCAD St. Inigoes, 00421.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-5, paragraph IV.B.1

Change date begin on both from "Mar 01" to Mar 02.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-6, paragraph IV.B.2

Change "C-130-2012" to CIN TBD.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-7, paragraph IV.B.3

Change "C-130-2012" to CIN TBD.

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-7, paragraph IV.B.3

Delete requirements for tech manuals NAVAIR 16-60/SPN-35B-1-1 and NAVAIR 16-

60/SPN-35B-1-2.

INCORPORATED: YES

COMMENT: Page IV-6, paragraph IV.B.3, Technical Manuals

Add the following manuals

EE216-AF-OMI-010/SPN-35 Hardcopy 10 Mar02 Pending

Aircraft Control Approach Central AN/SPN-35C Volume I

EE216-AF-OMI-020/SPN-35 Hardcopy 10 Mar02 Pending

Aircraft Control Approach Central AN/SPN-35C Volume II

EE216-AF-OMI-030/SPN-35 Hardcopy 10 Mar02 Pending

Aircraft Control Approach Central AN/SPN-35C Volume III

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1, Begin System Testing

Change status from "Pending" to In Progress.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1, Deliver Preliminary tech manuals

Change date from "Dec 00" to Oct 01.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1, Begin AN/SPN-35C initial training

Change date from "Mar01" to Mar02.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1, Upgrade technical training equipment to Charlie configuration

Change date from "Aug02" to Apr04

INCORPORATED: YES

COMMENT: Page V-1, Achieve Material Support Date for 35C

Change date from "Jul03" to Jun04.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1, Achieve Navy Support Date for the 35C

Change date from "Jan04" to Dec04.

INCORPORATED: YES

REMARKS: None

COMMENT: Page V-1, Begin 35C follow on maintenance training

Change date from "Aug04" to Apr04.

INCORPORATED: YES

REMARKS: None

COMMENT: Page VII-1, Campbell

Change employer to NAVAIRSYSCOM PMA213

INCORPORATED: YES

REMARKS: None

COMMENT: Page VII-1, Adams

Delete Mike Adams and replace with Mr. Brad Hierstetter, NAWCAD 3.1.4.1, St. Inigoes MD, Comm 301-862-8368, DSN 342-3512 ext8368, FAX 301-862-8481, EMAIL

hierstetter_Brad@atc-1s.stinigoes.navy.mil.

INCORPORATED: YES

ACTIVITY NAME: Naval Air Technical Training Center Pensacola

COMMENT: Preface

Change to read "Lists St. Inigoes as a Non-Traditional Training Site for AN/SPN-35C maintenance training from May 2002 until May 2004.

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-3, paragraph G.5, second sentence

Change to read "The upgrade will replace the existing antenna drive motors, syncros...."

INCORPORATED: YES

REMARKS: None

COMMENT: Page I-4, paragraph H.4, second sentence

Change to read "ISEA, NAWCAD St. Inigoes, will provide initial and follow-on training until NATTC Pensacola, Florida, assumes follow-on training commencing May 2004

INCORPORATED: YES

REMARKS: "Follow-on training cannot be provided at NATTC until AN/SPN-35C install is complete." From NATTC

COMMENT: Page I-5, paragraph H.4.a

Delete "Differences" out of course titles for Operator and Maintainer.

INCORPORATED: YES

REMARKS: None

COMMENT: Page II-8, Note:, second sentence

Change to read "NATTC Pensacola requires two instructor billets to support course of instruction."

INCORPORATED: YES

COMMENT: Page IV-4, GPETE, 03...77AN Multimeter

Change quantity to 1

INCORPORATED: YES

REMARKS: None

COMMENT: Page IV-4, GPETE, 04...RT 1009 X-Band Radar Test Set

Change to AN/UPM-145 X-Band Radar Test Set

INCORPORATED: YES

REMARKS: None

COMMENT: Page VII-2, ETCM Edward Waugh

Delete

INCORPORATED: YES

REMARKS: None

COMMENT: Page VII-2, ETC Jennifer Brake

Change numbers to "COMM: (850) 452-7023, DSN: 922-7023"

INCORPORATED: YES